SERVICE DATA
FILE NO. 110-305

TOSHIBA
STEREO RADIO CASSETTE RECORDER
RT-S782

SPECIFICATIONS

Cassette tape used:	Normal: C-30, C-60, C-90, C-120 Chrome: C-45, C-60, C-90 Metal: C-46, C-60
Tape speed:	4.8 cm/sec.
Track system:	Four-track two-channel stereophonic
Recording system:	AC bias (85 kHz)
Erasing system:	AC erasing
Frequency response:	Normal: 30 Hz to 14 kHz Metal: 30 Hz to 15 kHz
Receiving frequency:	FM: 88 MHz to 108 MHz SW: 5.9 MHz to 15.4 MHz MW: 525 kHz to 1605 kHz LW: 145 kHz to 270 kHz
Intermediate frequency:	FM: 10.7 MHz LW, MW, SW: 460 kHz
Antenna:	FM, SW: telescopic antenna LW, MW: ferrite-core antenna
Speakers:	120 mm (dia.) dynamic x 2 30 mm (dia.) peizo-electric type x 2
Jacks:	[MIC] jack x 2, Impedance 200–2 k ohm [TA/TB] jack x 1 [EXT SP] jack x 2, Impedance 3.2–8 ohm [PHONES] jack x 1
Power supply:	AC 220V-240V, 50 Hz DC 13.5V (SUM-1 "D" size x 9
Power consumption:	20 W
Dimensions (WxHxD):	526 x 190 x 125 mm
Weight:	4.4 kg (without batteries)

Specifications are subject to change without notice.

TE, TU, IT

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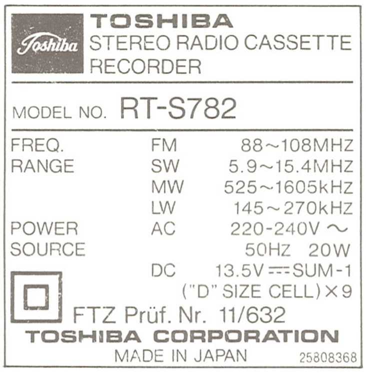
Name Plate



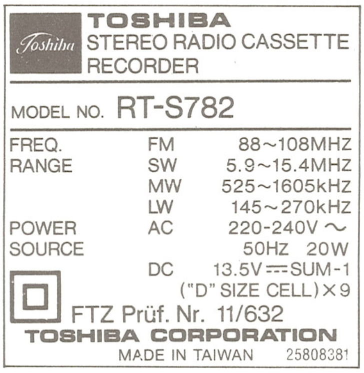
TOSHIBA
STEREO RADIO CASSETTE
RECORDER

MODEL NO. RT-S782

FREQ. RANGE	FM	88~108MHZ
	SW	5.9~15.4MHZ
	MW	525~1605kHZ
	LW	145~270kHZ
POWER SOURCE	AC	220-240V ~ 50HZ 20W
	DC	13.5V ⎓ SUM-1 ("D" SIZE CELL) × 9

FTZ Prüf. Nr. 11/632
TOSHIBA CORPORATION
MADE IN JAPAN 25808368

TE/TU



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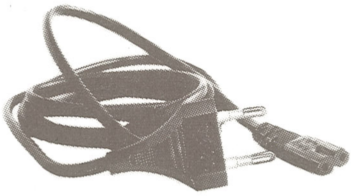
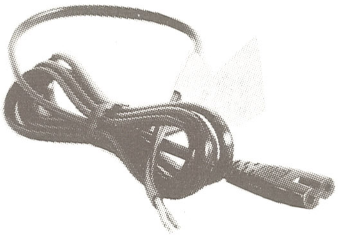
FTZ Prüf. Nr. 11/632
TOSHIBA CORPORATION
MADE IN TAIWAN 25808381

IT

Power Supply Cord



TE, IT



TU

1. BLOCK DIAGRAM

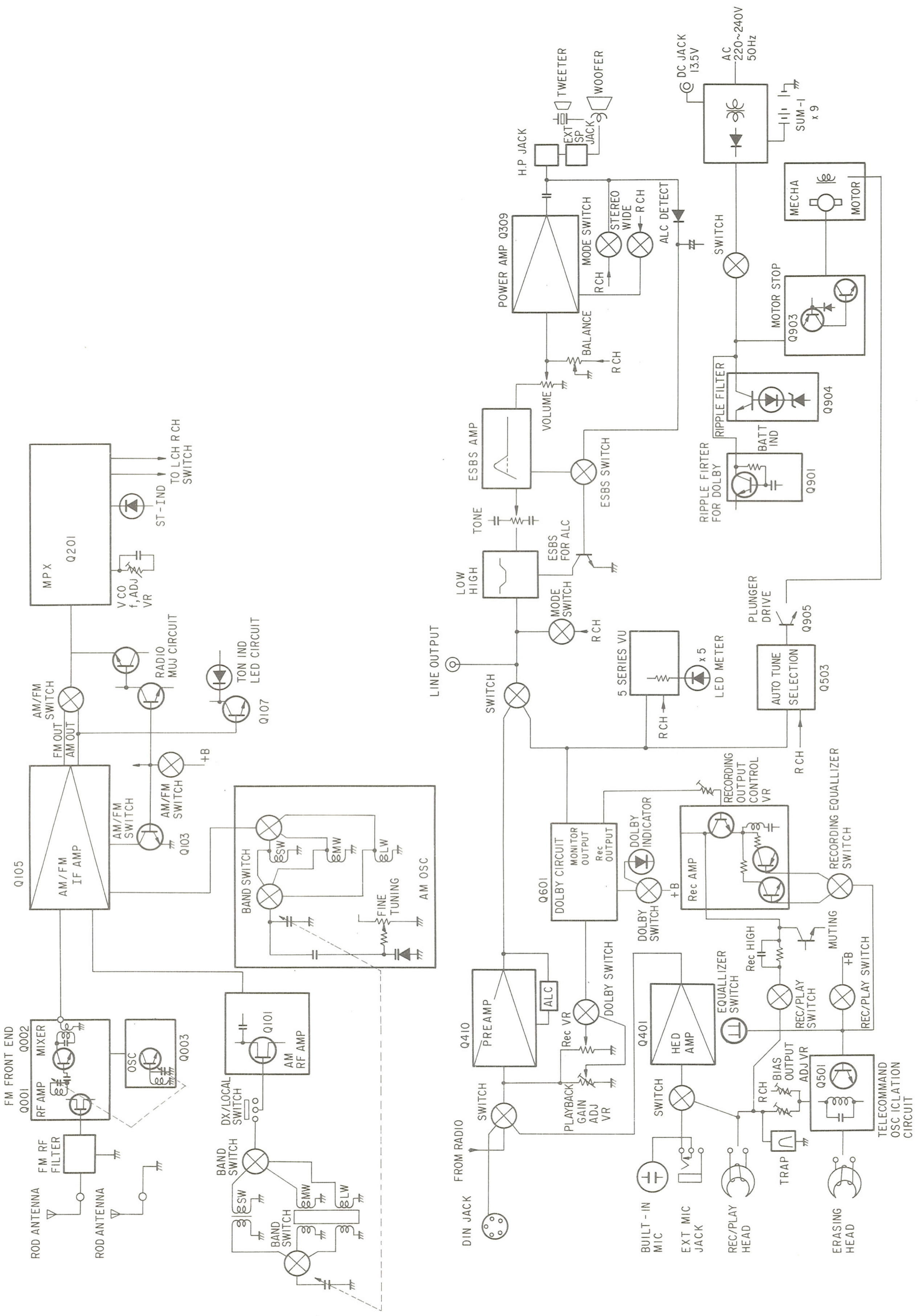
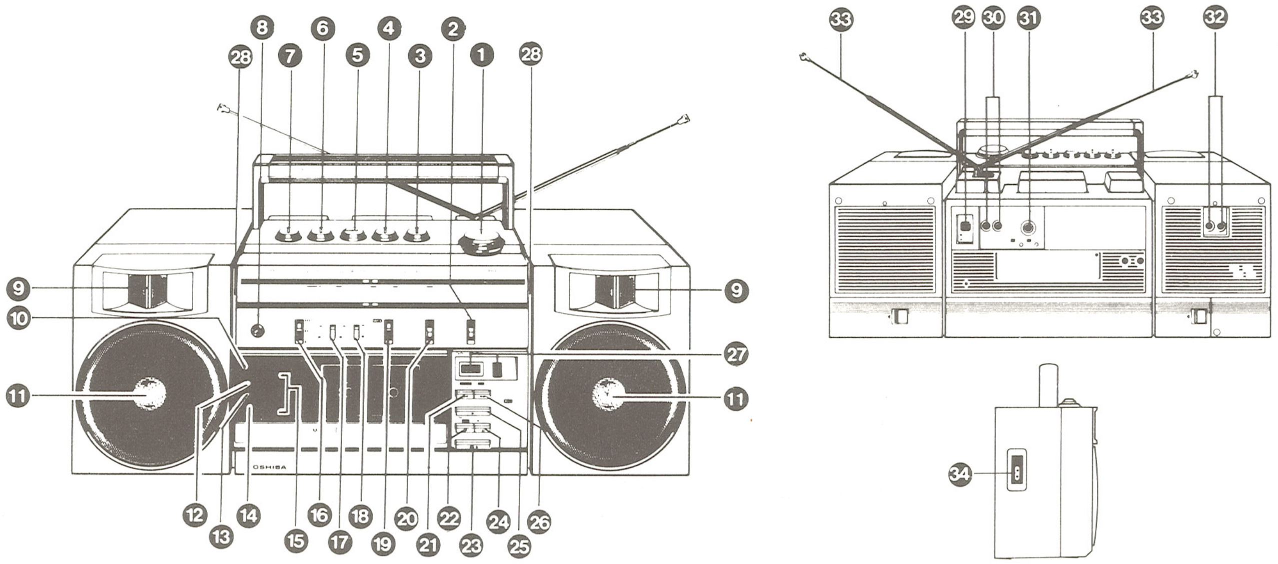

ROD ANTENNA
ROD ANTENNA
FM RF FILTER
FM FRONT END
Q001 RF AMP
Q002 MIXER
OSC
Q003
Q105
AM/FM IF AMP
FM OUT
AM OUT
AM/FM SWITCH
Q103
+B
MPX
Q201
VCO f ADJ VR
ST-IND
TO L CH R CH SWITCH
RADIO MUJ CIRCUIT
TON IND LED CIRCUIT
Q107
AM OSC
BAND SWITCH
SW
MW
LW
FINE TUNING
Q101
AM RF AMP
DX/LOCAL SWITCH
DIN JACK
FROM RADIO
SWITCH
Q410
PREAMP
ALC
Rec VR
PLAYBACK GAIN ADJ VR
DOLBY SWITCH
Q601
DOLBY CIRCUIT
MONITOR OUTPUT
Rec OUTPUT
DOLBY INDICATOR
LINE OUTPUT
LOW HIGH
TONE
ESBS AMP
ESBS FOR ALC
ESBS SWITCH
MODE SWITCH
VOLUME
BALANCE
R CH
POWER AMP Q309
STEREO WIDE
ALC DETECT
H.P JACK
EXT SP JACK
TWEETER
WOOFER
5 SERIES VU
LED METER
x 5
Q401
HED AMP
EQUALLIZER SWITCH
Rec HIGH
Rec AMP
RECORDING OUTPUT CONTROL VR
RECORDING EQUALLIZER SWITCH
MUTING
REC/PLAY SWITCH
BIAS OUTPUT ADJ VR
TRAP
Q501
TELECOMMAND OSC ICLATION CIRCUIT
BUILT-IN MIC
EXT MIC JACK
REC/PLAY HEAD
ERASING HEAD
DC JACK 13.5V
AC 220~240V 50Hz
SUM-1 x 9
MECHA
MOTOR
MOTOR STOP
Q903
RIPPLE FILTER
Q904
BATT IND
RIPPLE FIRTER FOR DOLBY
Q901
PLUNGER DRIVE
Q905
AUTO TUNE SELECTION
Q503

Figure 1.

2. OPERATING CONTROLS


1
2
3
4
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6
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8
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11
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14
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20
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32
33
34

Figure 2.

① **Tuning knob**
② **[BAND] Selector: FM/SW/MW/LW**
③ **[FINE TUNING] Control**
④ **[DOLBY NR*/REC LEVEL] Control**

* Noise reduction system manufactured under license from Dolby Laboratories Licensing Corporation. The word "Dolby" and the "Double-D" symbol are trademarks of Dolby Laboratories Licensing Corporation.

⑤ **[VOLUME] Control**
⑥ **[BALANCE] Control**
⑦ **[TONE] Control**
⑧ **[PHONES] Jack**
⑨ **Tweeter Speakers**
⑩ **[BATTERY/POWER] Indicator**
⑪ **Woofer Speakers**
⑫ **[TUNING] Indicator**
⑬ **[FM STEREO] Indicator**
⑭ **[DOLBY NR] Indicator**
⑮ **Level Meter**
⑯ **[MODE/BEAT] Selector**
⑰ **[ESBS] Switch**
⑱ **[DOLBY NR/ALC] Switch**
⑲ **[TAPE SELECTOR] Switch**
⑳ **[FUNCTION] Selector**

Note: In the RADIO OFF / TAPE position the mains power will still be supplied. Therefore, when not in use unplug the cord from the socket

㉑ **[◀◀REW/REVIEW] Button**
㉒ **[●ONE TOUCH REC] Button**
㉓ **[■STOP/▲EJECT] Button**
㉔ **[IIPAUSE] Button**
㉕ **[▶PLAY] Button**
㉖ **[▶▶FF/CUE] Button**
㉗ **Tape Counter/Counter Reset Button**
㉘ **Built-in Microphones**
㉙ **[AM SENS] Button**
㉚ **[MIC] Jacks**
㉛ **[TA/TB] Jack**
㉜ **[SPEAKER] Jacks**
㉝ **Telescopic Antennas**
㉞ **[AC POWER] Socket**

3. DISASSEMBLY INSTRUCTIONS

■ FRONT CABINET REMOVAL

1. Remove the 6 Knobs Ⓐ and a Knob Ⓑ at the top of the set.
2. Remove the back cabinet and the battery cover.
3. Open the cassette cover.
4. Remove the 7 Screws Ⓒ on the back cabinet.
5. Remove the front cabinet.

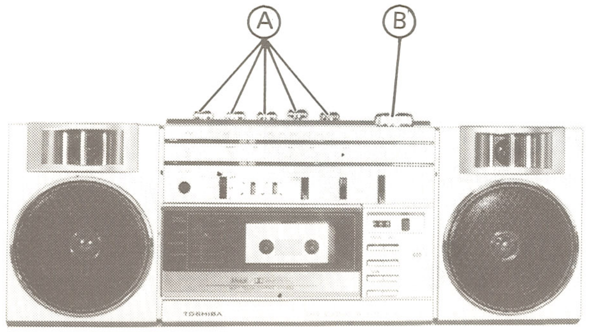
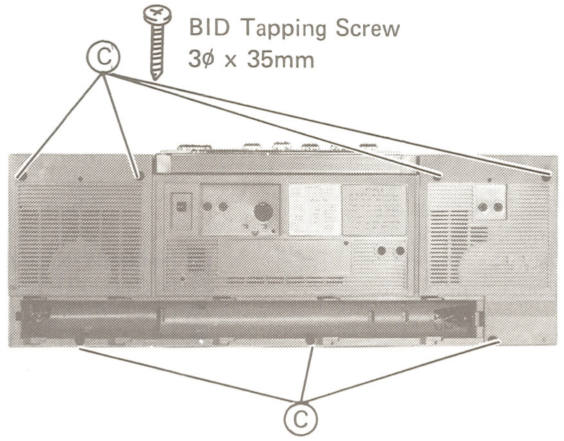


Figure 3.

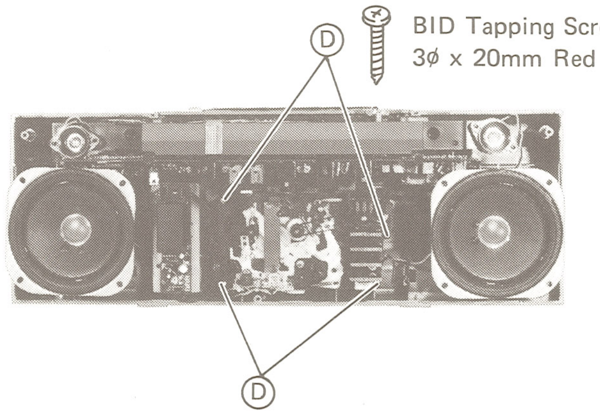


BID Tapping Screw
3ø x 35mm

Figure 4.

■ MECHANISM REMOVAL

1. Remove the 4 Screws Ⓓ securing the mechanism assembly.
2. Remove the 2 connectors which are connected to the main P.C. board from the mechanism assembly to detach the mechanism assembly.



BID Tapping Screw
3ø x 20mm Red

Figure 5.

■ LED P.C. BOARD REMOVAL

1. Remove the 3 hooks of the holder securing the LED P.C. board to detach the LED P.C. board.

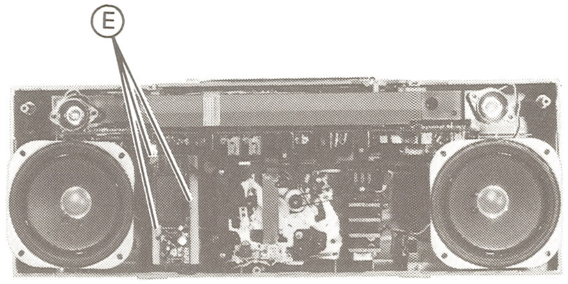
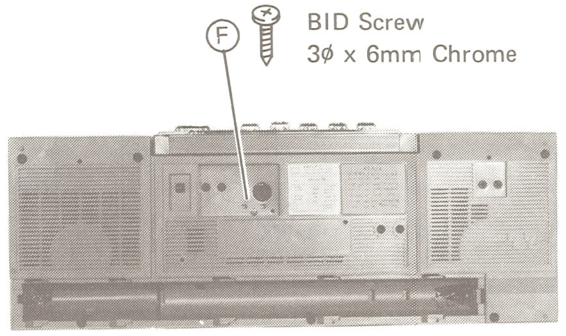


Figure 6.

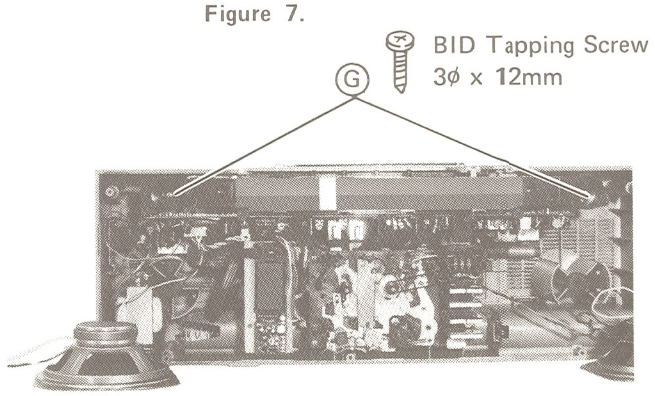
■ MAIN P.C. BOARD REMOVAL

1. Remove the front cabinet.
2. Remove a Screw Ⓕ securing the back cabinet.
3. Remove the tweeter of the speaker.
4. Remove the 2 Screws Ⓖ.
5. Draw the main P.C. board and volume P.C. board together with the dial frame.



BID Screw
3ø x 6mm Chrome

Figure 7.



BID Tapping Screw
3ø x 12mm

Figure 8.

4. HANDLE REMOVAL

■ HANDLE REMOVAL

1. Remove the handle shaft with the tip of the screwdriver to detach the handle assembly.

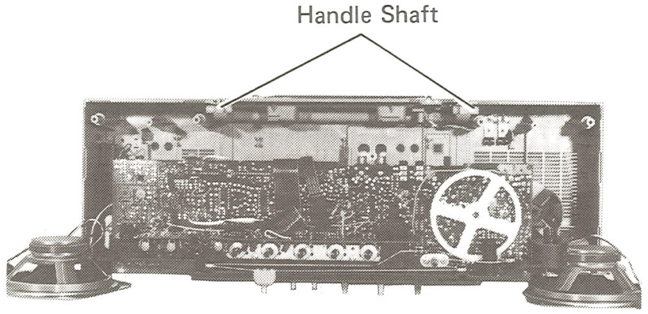

Handle Shaft

Figure 9.

4. METHOD OF P.R.C. REPAIRING

Cut defective printed-resistor-circuit off with knife. See Figure 10. Solder the replacement resistor (See replacement resistor parts list) on the opposite side of printed-circuit-board. See Figure 11.

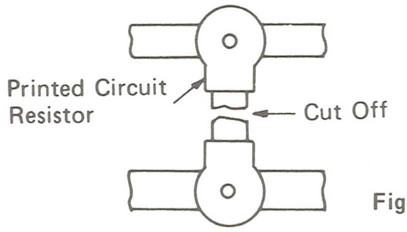

Printed Circuit Resistor
Cut Off

Figure 10.

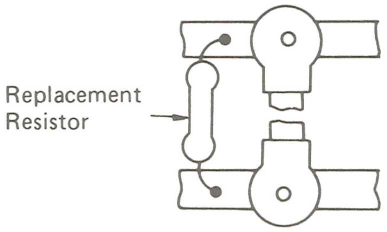

Replacement Resistor

Figure 11.

6. DIAL CORD RESTRINGING

■ DIAL CORD STRINGING

1. Draw out the dial cord from the opening of the drum, and hook the spring to the center hole.
2. Wind the dial cord from ① to ⑩ in numerical order.
3. Set the pointer to the cord and wind the cord.
4. Insert the cord into the groove of the hole of the drum.
5. Align the end of the pointer to the "0" position of the scale.

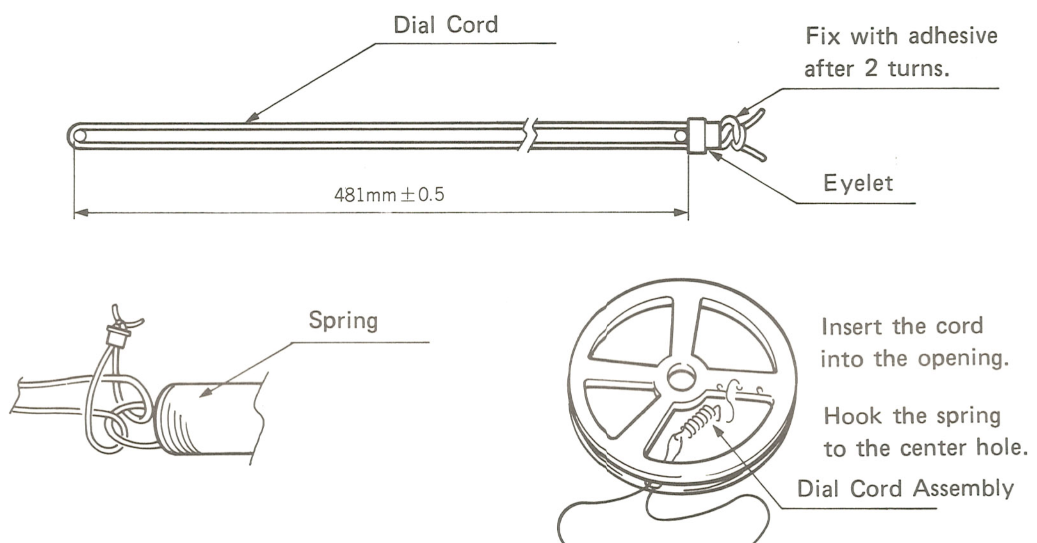

Dial Cord
Fix with adhesive after 2 turns.
Eyelet
481mm ±0.5
Spring
Insert the cord into the opening.
Hook the spring to the center hole.
Dial Cord Assembly

Figure 12.

DRUM SPRING AND DIAL CORD ASSEMBLY

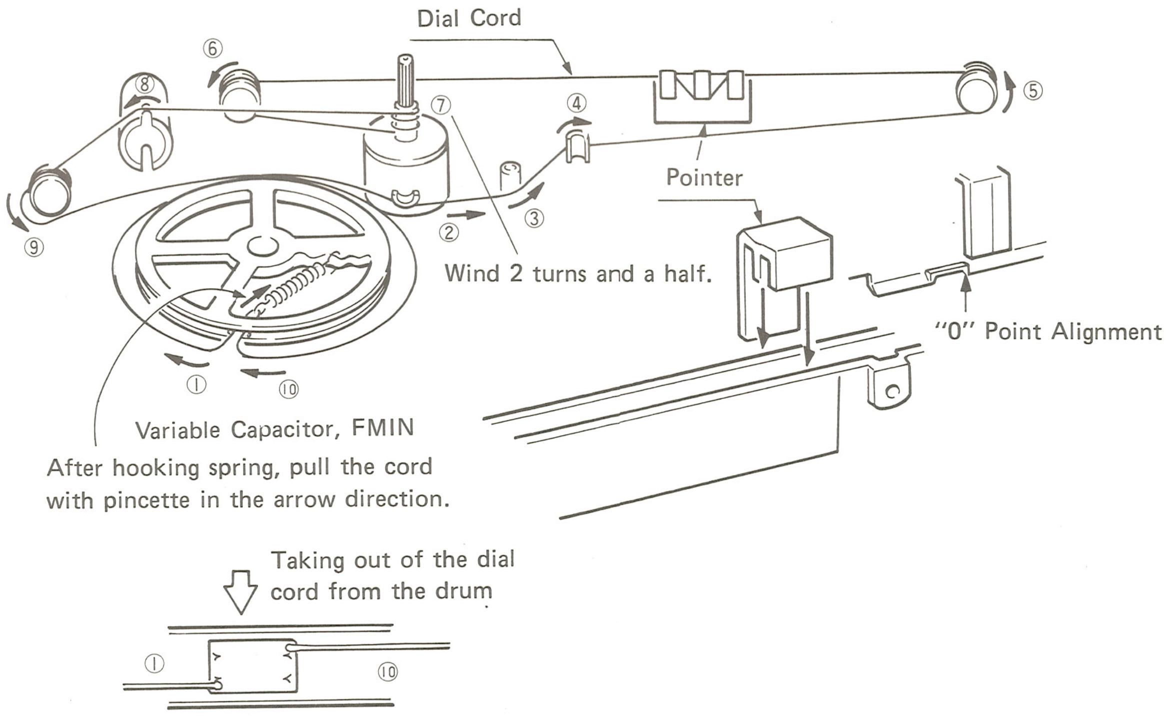

Dial Cord
⑥
⑧
⑦
④
⑤
⑨
②
③
Pointer
Wind 2 turns and a half.
"0" Point Alignment
①
⑩
Variable Capacitor, FMIN
After hooking spring, pull the cord with pincette in the arrow direction.
Taking out of the dial cord from the drum
①
⑩

Figure 13.

7. ALIGNMENT INSTRUCTIONS

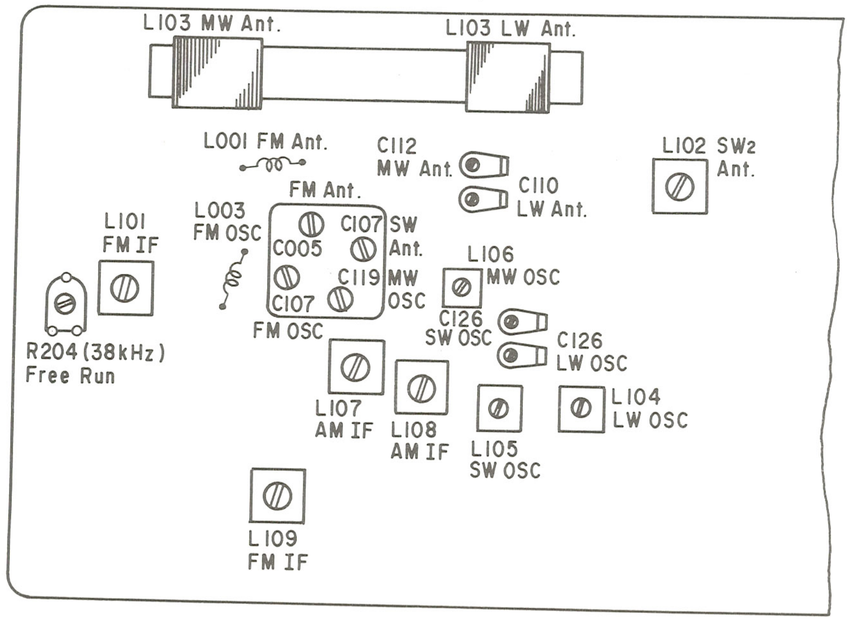

L103 MW Ant.
L103 LW Ant.
L001 FM Ant.
C112
MW Ant.
C110
LW Ant.
L102 SW2
Ant.
FM Ant.
L101
FM IF
L003
FM OSC
C107 SW
Ant.
C005
C119 MW
OSC
C107
FM OSC
L106
MW OSC
C126
SW OSC
C126
LW OSC
R204 (38kHz)
Free Run
L107
AM IF
L108
AM IF
L105
SW OSC
L104
LW OSC
L109
FM IF

Figure 14.

TEST EQUIPMENTS REQUIRED

1. AM Signal Generator
2. FM Signal Generator
3. AM Sweep Generator
4. FM Sweep Generator
5. AM Test Loop Antenna
6. Frequency Counter
7. Oscilloscope
8. Dummy Load Resistor
9. Dummy Antenna
10. VTVM
11. Adjusting Screwdriver

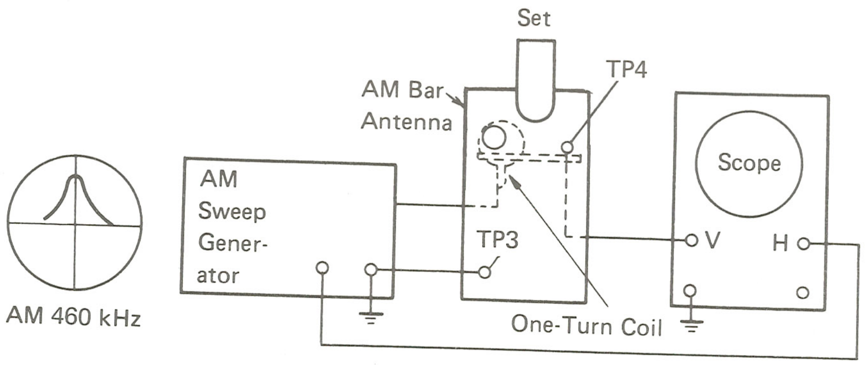

AM 460 kHz
AM
Sweep
Gener-
ator
AM Bar
Antenna
Set
TP4
TP3
One-Turn Coil
Scope
V
H

Figure 15.

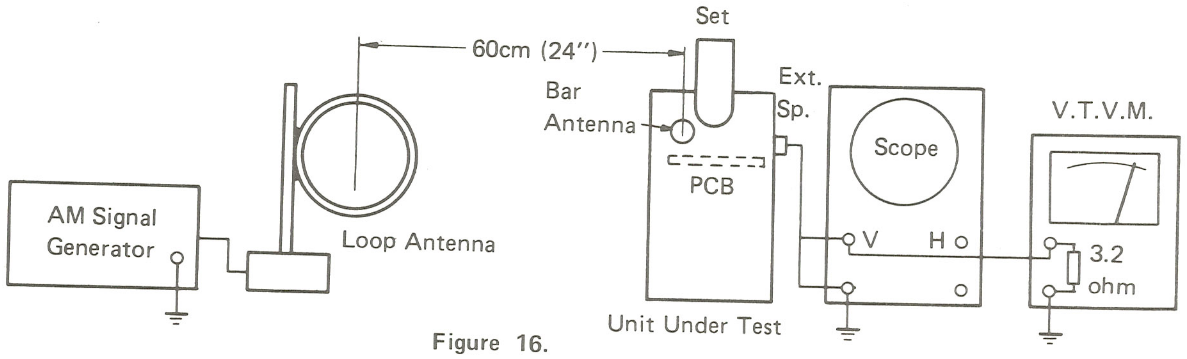

60cm (24")
Set
Bar
Antenna
Ext.
Sp.
PCB
Unit Under Test
AM Signal
Generator
Loop Antenna
Scope
V
H
V.T.V.M.
3.2
ohm

Figure 16.

AM ALIGNMENT CHART (See Fig. 14, Fig. 15)

Standard test frequency 400 Hz and modulation 30%.

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L108 L107	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L108 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully clockwise (Highest Frequency)	OSC. Trim C127	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L103 (MW)	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. C127	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	140 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L104	Adjust for maximum indication.
	2	140 kHz	Tune to Signal.	Ant. Coil L103	Adjust for maximum indication.
	3	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C119	Adjust for maximum indication.
	4	280 kHz	Tune to Signal.	Ant. Trim. C110	Adjust for maximum indication.
	5	Repeat steps 1, 2, 3 and 4 as required.			

SW ALIGNMENT CHART (See Fig. 16)

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
SW	1	5.75 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L105	Adjust for maximum indication.
	2	16 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C126	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 MHz	Tune to Signal.	Ant. Coil L102	Adjust for maximum indication.
	5	14 MHz	No Adjustment	Ant. Trim. C107	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

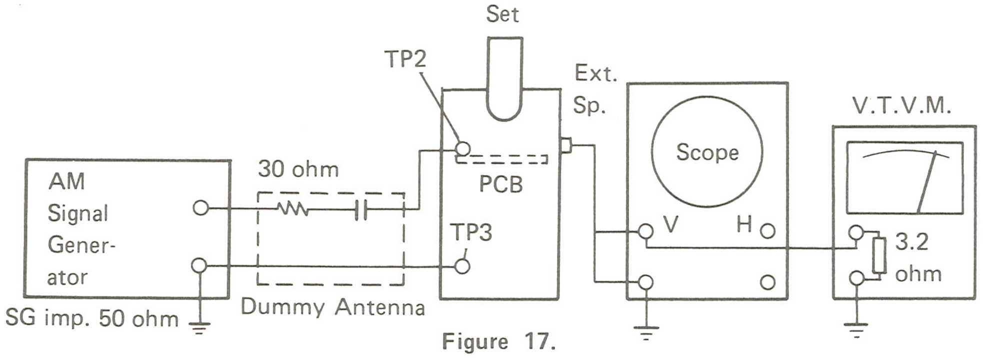

Set
TP2
Ext.
Sp.
Scope
V.T.V.M.
AM
Signal
Generator
30 ohm
PCB
TP3
V
H
3.2
ohm
SG imp. 50 ohm
Dummy Antenna

Figure 17.

FM-IF ALIGNMENT CHART (See Fig. 19)

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Remarks
	Connect sweep generator output to a three-turn loop antenna of 10cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L101 L109	Turn the coil L109 fully counterclockwise to obtain a single peak. Adjust coil L101 for highest single peak is obtained. Figure 17. Finally turn the coil L109 to obtain S curve. See figures 18.

Figure 18.

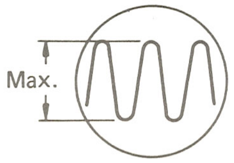
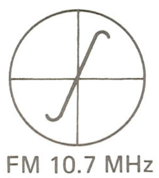


Figure 19.



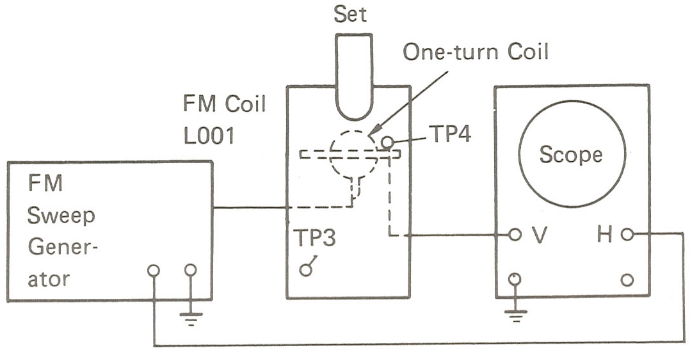

Set
One-turn Coil
FM Coil
L001
TP4
Scope
FM
Sweep
Generator
TP3
V
H

Figure 20.

FM-RF ALIGNMENT CHART (See Fig. 20)

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.5 MHz	Tuning Knob fully Counterclockwise (Lowest Frequency)	OSC. Coil L003	Adjust for maximum output indication.
2	109 MHz	Tuning Knob fully Clockwise (Highest Frequency)	OSC. Trim. C017	Adjust for maximum output indication.
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication.
5	106 MHz		Ant. Trim. C005	
6	Repeat steps 4 and 5 as required.			

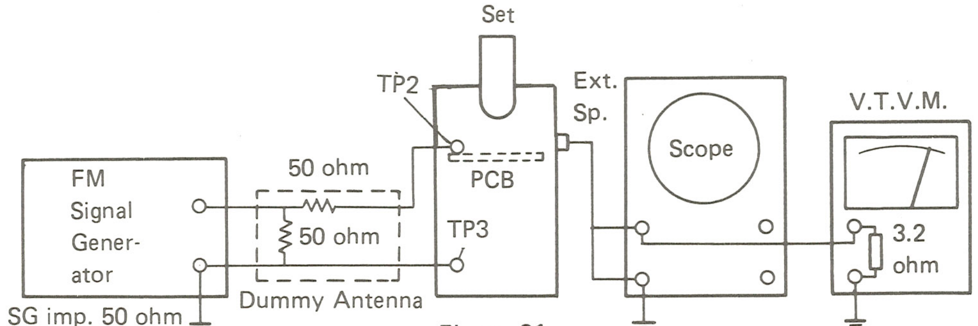

Set
TP2
Ext.
Sp.
Scope
V.T.V.M.
FM
Signal
Generator
50 ohm
50 ohm
PCB
TP3
3.2
ohm
SG imp. 50 ohm
Dummy Antenna

Figure 21.

FM MPX (See Fig. 21)

Step	Alignment	Connections		Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT			
1	Free Run 38 kHz	FM Frequency 98 MHz 1 mV	Connect frequency counter or synchroscope to TP. See Figure 21.	None	R204	Obtain 38 kHz ±75 Hz on the frequency counter.

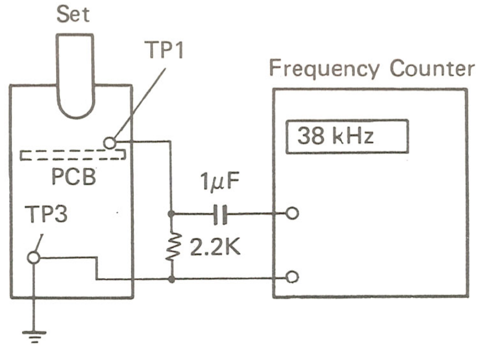

Set
TP1
Frequency Counter
38 kHz
PCB
TP3
1μF
2.2K

Figure 22.

CAUTION:

When realigning the FM Receiving Frequency, the highest end of the frequency range should not be move than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

RECORD/PLAYBACK HEAD ADJUSTMENT

A 6.3 kHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the EXT Speaker jack and adjust the forward azimuth and the reverse one by using a phillips screwdriver to maintain the maximum output voltage.

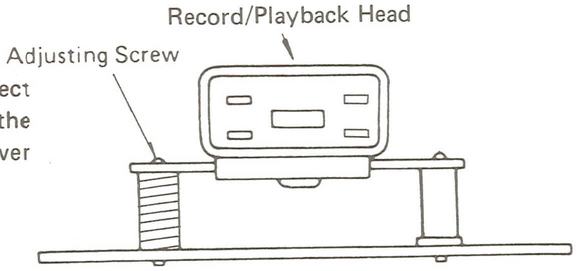

Record/Playback Head
Adjusting Screw

Figure 23.

TAKE-UP/SUPPLY REEL TENSION

1. Insert cassette torque meter.
2. Press PLAY button and read torque meter. Torque should be 30 to 60 gcm.
3. Release PLAY button and press REWIND button. Torque should be 75 to 150 gcm. If necessary, clean take-up reel or drive belt with alcohol, or replace belt.

8. ELECTRICAL PARTS LOCATIONS

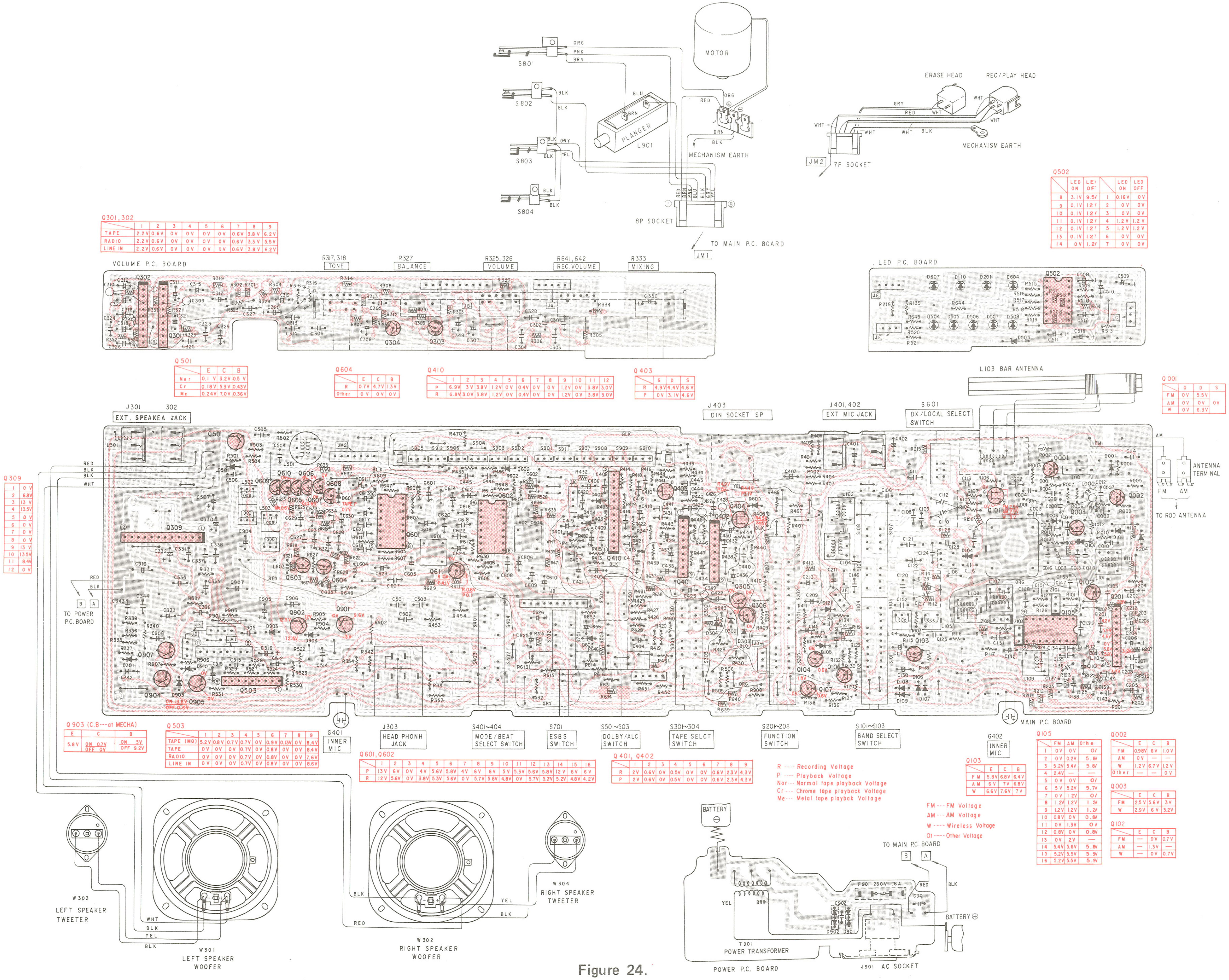

S801
S802
S803
S804
ORG
PNK
BRN
BLK
GRY
YEL
BLU
RED
WHT
MOTOR
PLANGER
L901
MECHANISM EARTH
8P SOCKET
TO MAIN P.C. BOARD
JM1
ERASE HEAD
REC/PLAY HEAD
MECHANISM EARTH
JM2
7P SOCKET
VOLUME P.C. BOARD
R317,318
TONE
R327
BALANCE
R325,326
VOLUME
R641,642
REC VOLUME
R333
MIXING
LED P.C. BOARD
L103 BAR ANTENNA
J301 302
EXT. SPEAKEA JACK
J403
DIN SOCKET SP
J401,402
EXT MIC JACK
S601
DX/LOCAL SELECT SWITCH
ANTENNA TERMINAL
FM
AM
TO ROD ANTENNA
TO POWER P.C. BOARD
MAIN P.C. BOARD
G401
INNER MIC
J303
HEAD PHONH JACK
S401~404
MODE/BEAT SELECT SWITCH
S701
ESBS SWITCH
S501~503
DOLBY/ALC SWITCH
S301~304
TAPE SELCT SWITCH
S201~208
FUNCTION SWITCH
S101~S103
BAND SELECT SWITCH
G402
INNER MIC
BATTERY
TO MAIN P.C. BOARD
F901 250V 1.6A
BATTERY ⊕
T901
POWER TRANSFORMER
POWER P.C. BOARD
J901 AC SOCKET
W303
LEFT SPEAKER TWEETER
W301
LEFT SPEAKER WOOFER
W302
RIGHT SPEAKER WOOFER
W304
RIGHT SPEAKER TWEETER

Figure 24.

Q301, 302

	1	2	3	4	5	6	7	8	9
TAPE	2.2V	0.6V	0V	0V	0V	0V	0.6V	3.8V	6.2V
RADIO	2.2V	0.6V	0V	0V	0V	0V	0.6V	3.3V	5.5V
LINE IN	2.2V	0.6V	0V	0V	0V	0V	0.6V	3.8V	6.2V

Q502

	LED ON	LED OFF		LED ON	LED OFF
8	3.1V	9.5V	1	0.16V	0V
9	0.1V	12V	2	0V	0V
10	0.1V	12V	3	0V	0V
11	0.1V	12V	4	1.2V	1.2V
12	0.1V	12V	5	1.2V	1.2V
13	0.1V	12V	6	0V	0V
14	0V	1.2V	7	0V	0V

Q501

	E	C	B
Nor	0.1V	3.2V	0.5V
Cr	0.18V	5.3V	0.43V
Me	0.24V	7.0V	0.36V

Q604

	E	C	B
R	0.7V	4.7V	1.3V
Other	0V	0V	0V

Q410

	1	2	3	4	5	6	7	8	9	10	11	12
P	6.9V	3V	3.8V	1.2V	0V	0.4V	0V	0V	1.2V	0V	3.8V	3.0V
R	6.8V	3.0V	3.8V	1.2V	0V	0.4V	0V	0V	1.2V	0V	3.8V	3.0V

Q403

	G	D	S
R	4.9V	4.4V	4.6V
P	0V	3.1V	4.6V

Q001

	G	D	S
FM	0V	5.5V	0V
AM	0V	0V	
W	0V	6.3V	

Q309

1	0V
2	6.8V
3	13V
4	13.5V
5	0V
6	0V
7	0V
8	0V
9	13V
10	13.5V
11	8.4V
12	0V

Q903 (C.B---at MECHA)

E	C	B
5.8V	ON 0.7V OFF 0V	ON 5V OFF 9.2V

Q503

	1	2	3	4	5	6	7	8	9
TAPE (MQ)	5.2V	0.8V	0.7V	0.7V	0V	0.9V	0.13V	0V	8.4V
TAPE	0V	0V	0V	0.7V	0V	0.8V	0V	0V	8.4V
RADIO	0V	0V	0V	0.7V	0V	0.8V	0V	0V	7.6V
LINE IN	0V	0V	0V	0.7V	0V	0.8V	0V	0V	8.6V

Q601, Q602

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P	13V	6V	0V	4V	5.6V	5.8V	4V	6V	6V	5V	5.3V	5.6V	5.8V	12V	6V	6V
R	12V	5.6V	0V	3.8V	5.3V	5.6V	0V	5.7V	5.8V	4.8V	0V	5.7V	5.2V	5.2V	4.8V	4.2V

Q401, Q402

	1	2	3	4	5	6	7	8	9
R	2V	0.6V	0V	0.5V	0V	0V	0.6V	2.3V	4.3V
P	2V	0.6V	0V	0.5V	0V	0V	0.6V	2.3V	4.3V

R ---- Recording Voltage
P ---- Playback Voltage
Nor --- Normal tape playback Voltage
Cr --- Chrome tape playback Voltage
Me --- Metal tape playbak Voltage

Q103

	E	C	B
FM	5.8V	6.8V	6.4V
AM	6V	7V	6.8V
W	6.6V	7.6V	7V

FM --- FM Voltage
AM --- AM Voltage
W ---- Wireless Voltage
Ot ---- Other Voltage

Q105

	FM	AM	Other
1	0V	0V	0V
2	0V	0.2V	5.8V
3	5.2V	5.4V	5.8V
4	2.4V	—	—
5	0V	0V	0V
6	5V	5.2V	5.7V
7	0V	1.2V	0V
8	1.2V	1.2V	1.2V
9	1.2V	1.2V	1.2V
10	0.8V	0V	0.8V
11	0V	1.3V	0V
12	0.8V	0V	0.8V
13	0V	2V	—
14	5.4V	5.6V	5.8V
15	5.2V	5.5V	5.9V
16	5.2V	5.5V	5.9V

Q002

	E	C	B
FM	0.98V	6V	1.0V
AM	0V	—	—
W	1.2V	6.7V	1.2V
Other	—	—	0V

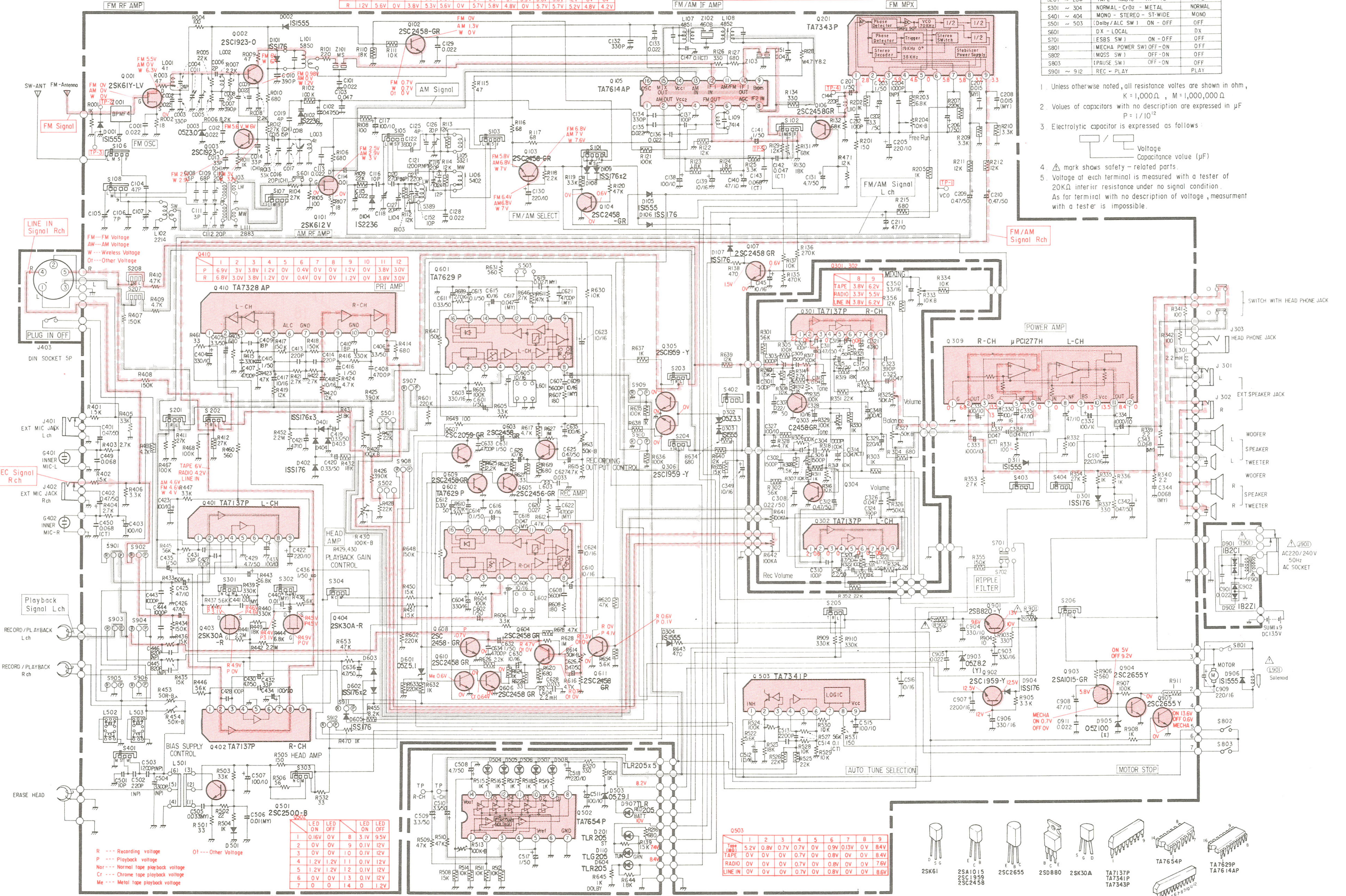
Q003

	E	C	B
FM	2.5V	5.6V	3V
W	2.9V	6V	3.2V

Q102

	E	C	B
FM	—	0V	0.7V
AM	—	1.3V	—
W	—	0V	0.7V

9. SCHEMATIC DIAGRAM


FM RF AMP
FM/AM IF AMP
FM MPX
AM RF AMP
FM/AM SELECT
PRI AMP
REC AMP
HEAD AMP
PLAYBACK GAIN CONTROL
POWER AMP
MIXING
RIPPLE FILTER
AUTO TUNE SELECTION
MOTOR STOP
BIAS SUPPLY CONTROL
FM Signal
AM Signal
FM/AM Signal L ch
FM/AM Signal Rch
LINE IN Signal Rch
REC Signal R ch
Playback Signal L ch
PLUG IN OFF
J403 DIN SOCKET 5P
EXT MIC JACK
ERASE HEAD
RECORD/PLAYBACK
SWITCH WITH HEAD PHONE JACK
HEAD PHONE JACK
EXT SPEAKER JACK
WOOFER
SPEAKER
TWEETER
AC220/240V 50Hz AC SOCKET
MOTOR
Solenoid
FM---FM Voltage
AM---AM Voltage
W---Wireless Voltage
Ot---Other Voltage
2SK61
2SA1015 2SC1959 2SC2458
2SC2655
2SD880
2SK30A
TA7137P TA7341P TA7343P
TA7654P
TA7629P TA7614AP
TA7328AP µPC1277H

Circuit	Function	Position
S101 ~ 108	LW - MW - SW - FM	LW
S201 ~ 208	TAPE - RADIO - TA - TB	TAPE
S301 ~ 304	NORMAL - CrO2 - METAL	NORMAL
S401 ~ 404	MONO - STEREO - ST-WIDE	MONO
S501 ~ 503	(Dolby/ALC SW) ON - OFF	OFF
S601	DX - LOCAL	DX
S701	(ESBS SW) ON - OFF	OFF
S801	(MECHA POWER SW) OFF - ON	OFF
S802	(MQSS SW) OFF - ON	OFF
S803	(PAUSE SW) OFF - ON	OFF
S901 ~ 912	REC - PLAY	PLAY

1. Unless otherwise noted, all resistance voltes are shown in ohm,
   K = 1,000 Ω , M = 1,000,000 Ω
2. Volues of capacitors with no description are expressed in µF
   $P = 1/10^{12}$
3. Electrolytic capacitor is expressed as follows:
   ☐ / ☐
   Voltage
   Capacitance volue (µF)
4. ⚠ mark shows safety – related parts.
5. Voltage at each terminal is measured with a tester of 20KΩ interior resistance under no signal condition.
   As for terminal with no description of voltage, measurment with a tester is impossible.

Q601, Q602

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
P	13V	6V	0V	4V	5.6V	5.8V	4V	6V	6V	5V	5.3V	5.6V	5.8V	12V	6V	6V
R	12V	5.6V	0V	3.8V	5.3V	5.6V	0V	5.7V	5.8V	4.8V	0V	5.7V	5.7V	5.2V	4.8V	4.2V

Q105

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
FM	0V	0V	5.2V	2.4V	0V	5V	0V	1.2V	1.2V	0.8V	0V	0.8V	0V	5.4V	5.2V	5.2V
AM	0V	0.2V	5.4V	—	0V	5.2V	1.2V	1.2V	1.2V	0V	1.3V	0V	2V	5.6V	5.5V	5.5V
Other	0V	0V	5.8V	—	0V	5.7V	0V	1.2V	1.2V	0.8V	0V	0.8V	—	5.8V	5.9V	5.9V

Q410

	1	2	3	4	5	6	7	8	9	10	11	12
P	6.9V	3V	3.8V	1.2V	0V	0.4V	0V	0V	1.2V	0V	3.8V	3.0V
R	6.8V	3.0V	3.8V	1.2V	0V	0.4V	0V	0V	1.2V	0V	3.8V	3.0V

Q301, 302

	8	9
TAPE	3.8V	6.2V
RADIO	3.3V	5.5V
LINE IN	3.8V	6.2V

Q502

	LED ON	LED OFF		LED ON	LED OFF
1	0.16V	0V	8	3.1V	9.5V
2	0V	0V	9	0.1V	12V
3	0V	0V	10	0.1V	12V
4	1.2V	1.2V	11	0.1V	12V
5	1.2V	1.2V	12	0.1V	12V
6	0V	0V	13	0.1V	12V
7	0	0	14	0	1.2V

Q503

	1	2	3	4	5	6	7	8	9
Tape (MQ)	5.2V	0.8V	0.7V	0.7V	0V	0.9V	0.13V	0V	8.4V
TAPE	0V	0V	0V	0.7V	0V	0.8V	0V	0V	8.4V
RADIO	0V	0V	0V	0.7V	0V	0.8V	0V	0V	7.6V
LINE IN	0V	0V	0V	0.7V	0V	0.8V	0V	0V	8.6V

R --- Recording voltage
P --- Playback voltage
Nor --- Normal tape playback voltage
Cr --- Chrome tape playback voltage
Me --- Metal tape playback voltage

Ot --- Other Voltage

Q401, Q402

	1	2	3	4	5	6	7	8	9
R	2V	0.6V	0V	0.5V	0V	0V	0.6V	2.3V	4.3V
P	2V	0.6V	0V	0.5V	0V	0V	0.6V	2.3V	4.3V

Q501

	E	C	B
Nor	0.1V	3.2V	0.5V
Cr	0.18V	5.3V	0.43V
Me	0.24V	7.0V	0.36V

Figure 25.

Symbol No.	Part No.	Description
114	22707429	Screw, Special ø2.6 x 6.7mm, Motor
116	25713559	Center Pulley Ass'y
117	25755528	Belt, Center Pulley Ass'y
118	25756284	Gear, Take-up
119	25756285	Gear, FF
120	25782519	Lever, Take-up
122	25782517	Lever, REC Bias
123	25782518	Lever, REC Select
124	25748590	Lever, REC
125	25776433	Spring
126	25776435	Spring
127	25776434	Spring

CABINET PARTS

Symbol No.	Part No.	Description
301	25881513	Cabinet Front Ass'y
302	25881515	Cabinet Back Ass'y
303	25837357	Knob, Push Switch
304	25837751	Knob, Lever Switch
305	25837846	Knob, Volume
306	25837847	Knob, Tuning
307	25837848	Knob, Push Switch
308	25838941	Battery Cover
309	25858490	Cover, Switch
310	25775233	Spring, Cassette Cover
311	25791314	Dampper Unit
312	25824247	Reflector, Cassette
313	25881511	Cassette Cover Ass'y
314	25777124	Spring, Battery
315	25835480	Handle Shaft
316	25864007	Battery Contact
317	25835479	Handle Holder
318	25835481	Handle
321	22741392	Pointer
322	22742284	Drum
323	25844200	Holder, LED Upper
325	25857028	Cushion, Tweeter
326	25771548	Spring
328	22742218	Pulley Ass'y
329	22749212	Tuning Shaft Ass'y
330	25777125	Spring, Battery
331	22707472	Screw, BID ø4 x 12mm, Tapping
332	22707531	Screw, BID ø3 x 20mm, Tapping, RED
333	22707810	Screw, BID ø3 x 35mm, Tapping, BLK
334	22707826	Screw, BID ø3 x 10mm, Tapping
336	22707802	Screw, BID ø3 x 12mm, Tapping
337	22707366	Screw, BID ø2.6 x 6mm, Tapping
338	22707798	Screw, TPAN ø3 x 10mm, Tapping
339	22707473	Screw, BID ø2.6 x 6mm
341	25808293	Dial Back
342	22707801	Screw, DT BID ø3 x 12mm, Chrome
343	25857039	Cushion, Speaker
344	22707117	Screw, BID ø3 x 12mm, Tapping, RED
346	25808368	Nameplate, TE, TU
346	25808381	Nameplate, IT
347	22701457	Screw, BID ø3 x 6mm, Chrome
348	22707445	Screw, DT BID ø3 x 6mm
351	25828962	Caution Plate
352	22701282	Screw, BID ø2.6 x 10mm, Tapping
353	25846369	Retainer, Handle

TRANSISTORS, ICS AND DIODES

Symbol No.	Part No.	Description
Q001	A6041040	Transistor, 2SK61-Y, FET
Q002, 003	A6319020	Transistor, 2SC1923-O
Q101	A6041040	Transistor, 2SK61-Y, FET
Q102, 103, 104	A6332440	Transistor, 2SC2458-GR
Q105	B0355431	IC, TA7614AP-Y
Q106, 107	A6332440	Transistor, 2SC2458-GR
Q201	B0325350	IC, TA7343P
Q301, 302	B031251A	IC, TA7137P-ST-Y
Q303, 304	A6332440	Transistor, 2SC2458-GR
Q305, 306	A6319300	Transistor, 2SC1959NEW-Y
Q309	22117071	IC, µPC1277H
Q401, 402	B031251A	IC, TA7137P-ST-Y
Q403, 404	A6048310	Transistor, 2SK30A-TM, R
Q410	B0325125	IC, TA7328AP
Q501	A6330425	Transistor, 2SC2500-B
Q502	B0356540	IC, TA7654P
Q503	B0325320	IC, TA7341P
Q601, 602	B0356150	IC, TA7629P
Q603, 604, 605, 606, 607, 608, 609, 610, 611	A6332440	Transistor, 2SC2458-GR
Q901	A6848520	Transistor, 2SD880-Y
Q902	A6319300	Transistor, 2SC1959NEW-Y
Q903	A6534060	Transistor, 2SA1015-GR
Q904, 905	A6333320	Transistor, 2SC2655-Y
D001, 002	A7246703	Diode, 1S1555V
D003	A7109300	Diode, 05Z3.0, Zener
D101	A7160570	Diode, 1SS176
D102	A7289000	Diode, 1S2236
D104	A7289000	Diode, 1S2236
D105	A7246703	Diode, 1S1555V
D106, 107, 108, 109	A7160570	Diode, 1SS176
D110	A8606630	Diode, TLG205, LED (GRN)
D201	A8603110	Diode, TLR205, LED (RED)
D301	A7160570	Diode, 1SS176
D302	A7109330	Diode, 05Z3.3, Zener
D303, 304	A7246703	Diode, 1S1555V
D311	A7246703	Diode, 1S1555V
D401, 402, 403, 404, 501	A7160570	Diode, 1SS176
D503	A7110263	Diode, 05Z9.1-Z
D504, 505, 506, 507, 508, 604	A8603110	Diode, TLR205, LED (RED)
D602, 603, 605	A7160570	Diode, 1SS176
⚠ D901	A7682010	Diode, 1B2C1
⚠ D902	A7682050	Diode, 1B2Z1
D903	A7110208	Diode, 05Z8.2-Y, Zener
D904	A7160570	Diode, 1SS176
D905	A7110311	Diode, 05Z10-X
D907	A8603110	Diode, TLR205, LED (RED)

ELECTRICAL PARTS

Symbol No.	Part No.	Description
L001	22294460	Coil, FM
L002	22294361	Coil, FM RF
L003	22294442	Coil, FM
L101	22265830	IF Transformer, FM
L102	22282214	Coil, SW
L103	22242883	Coil, Bar Antenna
L104	22245389	Coil, LW
L105	22285321	Coil, AM Oscillator
L106	22245402	Coil, MW
L107	22264851	IF Transformer, AM
L108	22264852	IF Transformer, AM
L109	22267414	IF Transformer, FM
L110	22232253	Coil
L301	22232207	Coil
L501	22232257	Coil, Tape Oscillator
L502, 503	22232256	Coil, Trap
L601, 602	22153186	Filter, Dolby
L603, 604	22232207	Coil, Trap
⚠ L901	22147241	Coil, Planger
⚠ T901	22224131	Transformer, Power
S101 ~ 108	22196110	Switch, Lever, Band Select
S201 ~ 208	22196109	Switch, Lever, Function
S301 ~ 304	22195943	Switch, Lever, Tape Select
S401 ~ 404	22195943	Switch, Lever, Mode/Beat
S501 ~ 503	22196050	Switch, Push, Dolby/ALC
S601	22196002	Switch, Push, DX/Local
S701 ~ 702	22196049	Switch, Push, ESBS
S801	22195885	Switch, Leaf, Power
S802	22195983	Switch, Leaf, MQSS
S803	22195983	Switch, Leaf, Pause
S804	22196068	Switch, Leaf, Stop
S901 ~ 912	22196095	Switch, Slide, Record/Playback
J301, 302	22163865	Jack, ø3.5, EXT. Speaker
J303	22163944	Jack, ø6, Headphone
J401, 402	22163865	Jack, ø3.5, EXT. Mic
J403	22167997	Socket, DIN 5P
⚠ J901	22167820	AC Socket, 2P
⚠ F901	22144293	Fuse, 1.6A
A001, 002	22124494	Rod Antenna
W301, 302	22152406	Speaker, 12cm, Woofer
W303, 304	22152407	Speaker, 3cm, Tweeter
Z001	22153228	Filter, Band-Pass, BPWF4
Z101, 103	22153058	Filter, Ceramic, FM
Z102	22153083	Filter, Ceramic
G401, 402	22154233	Microphone Unit EM-100S
EP01	22165047	Fuse Holder
EP02	22167688	Jack Back Cover

CAPACITORS

D = ±0.5pF , J = ±5%, M = ±20%, Z = –20, +80%,
D = ±5%, K = ±10%

Abbreviations: CD = Ceramic Disk, PP = Polypropylene
BL = Barrier Layer, MY = Mylar
EL = Electrolytic

Symbol No.	Part No.	Description
C005, 011, 017, 018, 105, 107, 118, 119	22308219	Variable, VC-4-20/335
C001, 002	22342223	CD, 0.022mfd, 50V, Z
C003	22362331	CD, 330pF, 50V, K
C004	22361240	CD, 24pF, 50V, J
C006	22361209	CD, 2pF, 50V, D
C007	22362391	CD, 390pF, 50V, K
C008	22361209	CD, 2pF, 50V, D
C009	22342223	CD, 0.022mfd, 50V, Z
C010	22362391	CD, 390pF, 50V, K
C012	22342223	CD, 0.022mfd, 50V, Z
C013, 014	22360136	CD, 33pF, 50V, J, CH
C015	22360132	CD, 15pF, 50V, J, CH
C016	22360673	CD, 20pF, 50V, J, CH
C019	22361409	CD, 4pF, 50V, D
C110 ~ 112	22309184	Trimmer, 20pF
C126, 127	22309184	Trimmer, 20pF
C101	22342223	CD, 0.022mfd, 50V, Z
C102	22488478	EL, 0.47mfd, 50V
C103	22342473	CD, 0.047mfd, 50V, Z
C104	22362470	CD, 47pF, 50V, K
C106	22361709	CD, 7pF, 50V, D
C108	22361150	CD, 15pF, 50V, J

Symbol No.	Part No.	Description
C109	22362680	CD, 68pF, 50V, K
C111	22361309	CD, 3pF, 50V, D
C113	22342223	CD, 0.022mfd, 50V, Z
C114	22349103	CD, 0.01mfd, 50V, K
C115	22342223	CD, 0.022mfd, 50V, Z
C116	22361100	CD, 10pF, 50V, D
C117	22483101	EL, 100mfd, 10V
C120	22321048	PP, 270pF, 50V, J
C121	22321050	PP, 360pF, 50V, J
C122	22321064	PP, 3900pF, 50V, J
C123	22321164	PP, 220pF, 50V, J
C124	22361120	CD, 12pF, 50V, D
C125	22361609	CD, 6pF, 50V, D
C128	22342223	CD, 0.022mfd, 50V, Z
C129	22342223	CD, 0.022mfd, 50V, Z
C130	22483221	EL, 220mfd, 10V
C131	22488479	EL, 4.7mfd, 50V
C132	22362331	CD, 330pF, 50V, K
C133	22342223	CD, 0.022mfd, 50V, Z
C134	22362331	CD, 330pF, 50V, K
C135	22342223	CD, 0.022mfd, 50V, Z
C136	22360329	BL, 0.022mfd, 25V, M
C137	22362101	CD, 100pF, 50V, K
C138	22483101	EL, 100mfd, 10V
C139	22485100	EL, 10mfd, 16V
C140	22483470	EL, 47mfd, 10V
C141	22488109	EL, 1mfd, 50V
C142	22360331	BL, 0.047mfd, 25V, M
C143	22360332	BL, 0.068mfd, 25V, M
C144	22362221	CD, 220pF, 50V, K
C145	22485100	EL, 10mfd, 16V
C147	22360333	BL, 0.1mfd, 25V, M
C151	22360484	CD, 0.047mfd, 50V, Z
C152	22361100	CD, 10pF, 50V, D
C201	22488109	EL, 1mfd, 50V
C202	22488339	EL, 3.3mfd, 50V
C203	22488109	EL, 1mfd, 50V
C204	22321057	PP, 1000pF, 50V, J
C205	22483221	EL, 220mfd, 10V
C206	22488109	EL, 1mfd, 50V
C207	22371153	MY, 0.015mfd, 50V, J
C208	22371153	MY, 0.015mfd, 50V, J
C209	22488478	EL, 0.47mfd, 50V
C210	22488478	EL, 0.47mfd, 50V
C211	22483470	EL, 47mfd, 10V
C212	22362101	CD, 100pF, 50V, K
C301	22349152	CD, 1500pF, 50V, K
C302	22349152	CD, 1500pF, 50V, K
C303, 304	22349102	CD, 1000pF, 50V, K
C305, 306	22349152	CD, 1500pF, 50V, K
C307, 308	22488228	EL, 0.22mfd, 50V
C309, 310	22362101	CD, 100pF, 50V, K
C311, 312	22488478	EL, 0.47mfd, 50V

Symbol No.	Part No.	Description
C313, 314	22360331	BL, 0.047mfd, 25V, M
C315, 316	22488229	EL, 2.2mfd, 50V
C317, 318	22488109	EL, 1mfd, 50V
C319, 320	22488479	EL, 4.7mfd, 50V
C321, 322	22483470	EL, 47mfd, 10V
C323, 324	22349391	CD, 390pF, 50V, K
C325, 326	22360331	BL, 0.047mfd, 25V, M
C327	22483101	EL, 100mfd, 10V
C328	22485100	EL, 10mfd, 16V
C329	22483221	EL, 220mfd, 10V
C330	22485101	EL, 100mfd, 16V
C331, 332	22483101	EL, 100mfd, 10V
C333, 334	22483102	EL, 1000mfd, 10V
C335, 336	22483470	EL, 47mfd, 10V
C337, 338	22360331	BL, 0.047mfd, 25V, M
C342	22488478	EL, 0.47mfd, 50V
C343, 344	22371683	MY, 0.068mfd, 50V, J
C348	22483101	EL, 100mfd, 10V
C349	22485100	EL, 10mfd, 16V
C350	22485330	EL, 33mfd, 16V
C401, 402	22488478	EL, 0.47mfd, 50V
C403	22483101	EL, 100mfd, 10V
C404	22483331	EL, 330mfd, 10V
C405, 406	22488339	EL, 3.3mfd, 50V
C407, 408	22349472	CD, 4700pF, 50V, K
C409, 410	22361180	CD, 18pF, 50V, J
C413, 414	22349221	CD, 220pF, 50V, K
C415, 416	22488109	EL, 1mfd, 50V
C417	22485100	EL, 10mfd, 16V
C418	22485100	EL, 10mfd, 16V
C419, 420	22488338	EL, 0.33mfd, 50V
C421	22483470	EL, 47mfd, 10V
C422	22483221	EL, 220mfd, 10V
C423	22483101	EL, 100mfd, 10V
C425	22483470	EL, 47mfd, 10V
C426	22483470	EL, 47mfd, 10V
C427, 428	22362101	CD, 100pF, 50V, K
C429, 430	22488479	EL, 4.7mfd, 50V
C431, 432	22361330	CD, 33pF, 50V, J
C433, 434	22483101	EL, 100mfd, 10V
C435, 436	22488109	EL, 1mfd, 50V
C440, 441	22371103	MY, 0.01mfd, 50V, J
C443, 444	22349102	CD, 1000pF, 50V, K
C445, 446	22321056	PP, 820pF, 50V, J
C449	22360332	BL, 0.068mfd, 25V, M
C450	22360332	BL, 0.068mfd, 25V, M
C501	22361100	CD, 10pF, 50V, D
C502	22321104	PP, 220pF, 100V, J
C503	22321113	PP, 1200pF, 100V, J
C504	22321118	PP, 3300pF, 100V, J
C505	22371333	MY, 0.033mfd, 50V, J
C506	22371103	MY, 0.01mfd, 50V, J

Symbol No.	Part No.	Description
C507	22483101	EL, 100mfd, 10V
C508	22488479	EL, 4.7mfd, 50V
C509, 510	22488339	EL, 3.3mfd, 50V
C511	22483101	EL, 100mfd, 10V
C512	22485100	EL, 10mfd, 16V
C513	22349222	CD, 2200pF, 50V, K
C514	22360333	BL, 0.1mfd, 25V, M
C515	22483101	EL, 100mfd, 10V
C516	22485100	EL, 10mfd, 16V
C517	22488109	EL, 1mfd, 50V
C518	22485221	EL, 220mfd, 16V
C601, 602	22488109	EL, 1mfd, 50V
C603, 604	22485331	EL, 330mfd, 16V
C605, 606	22485100	EL, 10mfd, 16V
C607, 608	22371562	MY, 5600pF, 50V, J
C609, 610	22488109	EL, 1mfd, 50V
C611, 612	22488338	EL, 0.33mfd, 50V
C613, 614	22488108	EL, 0.1mfd, 50V
C615, 616	22485100	EL, 10mfd, 16V
C617, 618	22371473	MY, 0.047mfd, 50V, J
C619, 620	22371273	MY, 0.027mfd, 50V, J
C621, 622	22371472	MY, 4700mfd, 50V, J
C623, 624	22485100	EL, 10mfd, 16V
C625, 626	22488478	EL, 0.47mfd, 50V
C627, 628	22360330	BL, 0.033mfd, 25V, M
C629	22485100	EL, 10mfd, 16V
C630	22485100	EL, 10mfd, 16V
C631, 632	22488109	EL, 1mfd, 50V
C633, 634	22349472	CD, 4700pF, 50V, K
C635	22485101	EL, 100mfd, 16V
C636	22488479	EL, 4.7mfd, 50V
C901, 902	22342223	CD, 0.022mfd, 50V, Z
C903	22485331	EL, 330mfd, 16V
C904	22483331	EL, 330mfd, 10V
C905	22342223	CD, 0.022mfd, 50V, Z
C906	22485331	EL, 330mfd, 16V
C907	22485222	EL, 2200mfd, 16V
C908	22483470	EL, 47mfd, 10V
C909	22485221	EL, 220mfd, 16V
C910	22485222	EL, 2200mfd, 16V
C911	22342223	CD, 0.022mfd, 50V, Z

RESISTORS

1. Resistors are Carbon film ¼W, ±5%, unless otherwise noted.
2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required, please use the substitution fixed carbon film resistor of ¼W, ±5% according to the following list.
   K = 1000, M = 1000000

Symbol No.	Part No.	Description
R001	22555102	1K ohm
R002	22555180	18 ohm
R003	22555470	47 ohm
R004	22555101	100 ohm
R005	22555223	22K ohm
R006	22555822	8.2K ohm
R007, 008	22555222	2.2K ohm
R009	22555470	47 ohm
R010	22555681	680 ohm
R011	22555102	1K ohm
R012	22555273	27K ohm
R013	22555333	33K ohm
R101	22555221	220 ohm
R102	22555104	100K ohm (PRC)
R103	22555103	10K ohm
R104	22555272	2.7K ohm
R105	22555101	100 ohm
R106	22555681	680 ohm
R107	22555180	18 ohm
R108	22555101	100 ohm (PRC)
R109	22555223	22K ohm (PRC)
R110	22555183	18K ohm (PRC)
R111	22555103	10K ohm (PRC)
R112, 113, 114	22555123	12K ohm (PRC)
R115	22555470	47 ohm
R116, 117	22555680	68 ohm
R118	22555222	2.2K ohm
R119	22555332	3.3K ohm (PRC)
R120	22555473	47K ohm
R121	22555104	100K ohm (PRC)
R122	22555123	12K ohm (PRC)
R123, 124	22555182	1.8K ohm (PRC)
R125	22555332	3.3K ohm (PRC)
R126	22555331	330 ohm
R127	22555681	680 ohm
R128	22555479	4.7 ohm (Q105 --- W)
R128	22555829	8.2 ohm (Q105 --- Y)
R129	22555123	12K ohm
R130	22584183	18K ohm
R131, 132	22555683	68K ohm
R134	22555331	330 ohm (PRC)
R135	22555474	470K ohm
R136	22555274	270K ohm
R137	22555103	10K ohm
R138	22555471	470 ohm
R139	22555152	1.5K ohm
R201	22555151	150 ohm
R202	22555102	1K ohm (PRC)
R203	22555682	6.8K ohm (PRC)
R204	22658599	Semi-fixed Variable, 10K ohm (B), Free Run
R205	22555102	1K ohm (PRC)
R207	22555224	220K ohm (PRC)

Symbol No.	Part No.	Description
R209, 210	22555332	3.3K ohm (PRC)
R211, 212	22555123	12K ohm (PRC)
R215	22555681	680 ohm (PRC)
R216	22555681	680 ohm
R301, 302	22555473	47K ohm (PRC)
R303	22555102	1K ohm (PRC)
R304	22555681	680 ohm (PRC)
R305, 306	22555104	100K ohm (PRC)
R307, 308	22555103	10K ohm (PRC)
R309, 310	22555152	1.5K ohm (PRC)
R311, 312	22555102	1K ohm (PRC)
R313, 314	22555272	2.7K ohm (PRC)
R315, 316	22555103	10K ohm
R317, 318	22650465	Variable, 100K ohm, Tone
325, 326		Variable, 50K ohm, Volume
327		Variable, 50K ohm, Balance
333		Variable, 10K ohm, Mixing
641, 642		Variable, 100K ohm, REC, Volume
R319	22555183	18K ohm (PRC)
R320	22555183	18K ohm
R321, 322	22555101	100 ohm (PRC)
R323	22555222	2.2K ohm
R324	22555222	2.2K ohm (PRC)
R328	22555472	4.7K ohm (PRC)
R329	22555104	100K ohm (PRC)
R330	22555102	1K ohm (PRC)
R331, 332	22555101	100 ohm
R334	22555103	10K ohm (PRC)
R335, 336	22555102	1K ohm
R337	22555331	330 ohm
R339, 340	22555229	22 ohm
R341, 342	22555101	100 ohm
R351, 352	22555333	33K ohm
R353, 354	22555273	27K ohm
R355	22555154	150K ohm (PRC)
R356	22555123	12K ohm
R401, 402	22555152	1.5K ohm
R403, 404	22555272	2.7K ohm
R405, 406	22555332	3.3K ohm
R407, 408	22555154	150K ohm
R411	22555273	27K ohm
R412	22555273	27K ohm (PRC)
R413, 414	22555681	680 ohm
R415, 416	22555334	330K ohm
R417, 418	22555154	150K ohm
R419, 420	22555123	12K ohm
R421, 422	22555272	2.7K ohm
R423, 424	22555472	4.7K ohm
R425, 426	22555394	390K ohm
R427, 428	22555223	22K ohm
R429, 430	22658380	Semi-fixed Variable, 100K ohm
R409, 410	22555472	4.7K ohm

Symbol No.	Part No.	Description
R431	22555182	1.8K ohm
R432	22555182	1.8K ohm (PRC)
R433, 434	22555154	150K ohm
R435, 436	22555153	15K ohm
R437, 438	22555562	5.6K ohm
R439, 440	22555334	330K ohm
R441, 442	22555225	2.2M ohm
R443, 444	22555682	6.8K ohm
R445, 446	22555563	56K ohm
R447	22555332	3.3K ohm
R449	22555183	18K ohm
R450, 451	22555153	15K ohm
R452	22555225	2.2M ohm
R453, 454	22658185	Semi-fixed Variable, 50K ohm
R455	22555822	8.2K ohm (PRC)
R460	22555561	560 ohm
R461	22555330	33 ohm
R467, 468	22555104	100K ohm
R469	22555472	4.7K ohm (PRC)
R470	22555102	1K ohm
R471	22555123	12K ohm
R501	22555339	3.3 ohm
R502	22555220	22 ohm
R503	22555332	3.3K ohm
R504	22555102	1K ohm
R505	22555151	150 ohm
R506	22555560	56 ohm
R508	22555153	15K ohm (PRC)
R509, 510	22555473	47K ohm
R511, 512	22555103	10K ohm (PRC)
R513	22658604	Semi-fixed Variable, 100K ohm
R514	22555103	10K ohm (PRC)
R515, 516, 517, 518, 519	22555102	1K ohm
R520	22555331	330 ohm
R521	22555102	1K ohm
R522	22555562	5.6K ohm
R523	22555183	18K ohm
R524	22555104	100K ohm
R525, 526	22555223	22K ohm (PRC)
R527	22555563	56K ohm
R528, 529, 530	22555103	10K ohm
R531	22555151	150 ohm
R532	22555330	33 ohm
R601, 602	22555224	220K ohm
R603, 604	22555104	100K ohm
R605, 606	22555332	3.3K ohm
R607, 608	22555181	180 ohm
R609, 610	22555274	270K ohm

Symbol No.	Part No.	Description
R611, 612	22555473	47K ohm
R613, 614	22658185	Semi-fixed Variable, 50K ohm
R615, 616	22555472	4.7K ohm
R617, 618	22555472	4.7K ohm (PRC)
R619, 620	22555681	680 ohm (PRC)
R621, 622	22555330	33 ohm (PRC)
R623, 624	22555102	1K ohm (PRC)
R625, 626	22555222	2.2K ohm (PRC)
R627, 628	22555105	1M ohm
R629	22555473	47K ohm
R630	22555103	10K ohm
R631	22555561	560 ohm
R632	22555102	1K ohm (PRC)
R633	22555224	220K ohm (PRC)
R634	22555681	680 ohm (PRC)
R635, 636	22555104	100K ohm (PRC)
R637, 638	22555102	1K ohm (PRC)
R639, 640	22555123	12K ohm (PRC)
R643	22555471	470 ohm
R644	22555182	1.8K ohm
R645	22555102	1K ohm
R646	22555272	2.7K ohm (PRC)
R647, 648	22555154	150K ohm
R649	22555101	100 ohm

Symbol No.	Part No.	Description
R653	22555473	47K ohm
R654	22555562	5.6K ohm (PRC)
R655	22555153	1.5K ohm (PRC)
R901	22500170	5.6 ohm, Fuse Resistor
R902	22500177	33 ohm, Fuse Resistor
R903	22555331	330 ohm
R904	22555100	10 ohm
R905	22555332	3.3K ohm
R906	22555561	560 ohm
R907	22555104	100K ohm
R908	22555102	1K ohm
R909, 910	22555334	330K ohm
R911	22500271	1 ohm, Fuse Resistor
ACCESSORIES		
AC01	22903409	Owner's Manual, TE, IT
AC01	22903410	Owner's Manual, TU
AC02	22176541	Power Supply Cord, TE, IT
AC02	22176578	Power Supply Cord, TU

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